

2 July 1963

REPLY TO
ATTN OF: P. E.

SUBJECT: Monthly Activities Report for June 1963

TO: Commander
WRSP-IV

1. Flight Discrepancies: There were no personal equipment discrepancies noted through-out the reporting period.
2. Trainings: [] had indoctrinated the Squadron Commander in the use of high altitude personal equipment. The Commander has been fitted with a partial pressure suit and helmet for use in subsequent flight training. [] had accomplished training in pre-breathing preparations and assisted in a few pilot suitings. His training is progressing slowly due to duty requirements requiring immediate attention.
3. TDY's: [] TDY to Laughlin AFB and Barksdale AFB from 22 to 28 June to provide technical supervisory and/support for BRASS KNOB. training
4. Leaves: [] took leave from 10 to 20 June.
5. Seat Pack Maintenance: In addition to routine seat pack maintenance, [] serviced three (3) ARDC seat packs.
6. Equipment and Material: Transportation: The medical/Personal Equipment section has been assigned a Chevrolet staff car and a Pontiac ambulance to meet the units transportation requirements. The ambulance is being considered to eventually replace the P.E. transport truck as the primary transfer vehicle. The P.E. truck will be used as a back up transfer vehicle and for TDY's.

Partial Pressure Suits: [] has had opportunity to thoroughly check out his modified partial pressure suit and is acceptable to him.

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A new one has been requisitioned for him and, upon receipt of the new suit, his present back up suit will be returned to David Clark for re-conditioning and alterations. [] new suit has been determined to be acceptable and a requisition has been submitted for an additional suit. Upon receipt of the second suit, his present back up suit will be returned to the factory for reconditioning and alterations.

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Test Equipment: One set of test equipment consisting of an integrator testor and power supply has been loaned to the 4080th SRWg OL-19 to be used in testing flight equipment peculiar to our aircraft. The test equipment will be returned upon completion of their TDY requirement.

Q336 Faceplate: Five (5) faceplates were loaned to the 4080th SRWg temporarily under the same agreement as the loan of the test equipment.

CMU-1/P Ventilating Garments: Requisitions have been submitted along with SLOE change requests to obtain seven (7) additional ventilating garments. Testing of the garment in conjunction with our requirements reveal the garment will be of considerable help in cooling the pilots in areas of high temperatures. See Research and Development for further comments.

In Flight Food: Hqs advised, 6 June our requirements for In-flight food tube had been ordered. To date we have not received the food and are at a point where there is only enough on hand to handle one prolonged staging. We are considering increasing our tube food requirements to support the dual staging concept plus provide for routine training flights at the home station.

Supply Account: [] has signed for the supply account prior to [] leaving the organization.

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7. Research and Development:

a. Hqs advised that a 35ft canopy parachute and a new seat kit were being shipped to this station for evaluation in our program. To date the equipment has not been received.

b. Q445 seat pack is presently at a stand still. [] checked STATINTL into the Q.D. problem while at Laughlin. [] reported STATINTL numerous malfunctions of the Q.D. had been experienced. One happened while [] was there. The Personal Equipment technician checked the Q.D. for lacing before and after the pilot hook-up and it checked out OK. The mobile officer double checked the Q.D. before closing canopy and it checked out OK. Then the pilot checked it and it fell out arming STATINTL the emergency oxygen bottle. In checking further with [] the 4080th Flying Safety Officer, and [] I was STATINTL advised that there were NO problems at all with the new Q.D. and that the discrepancies reported to the undersigned by [] are not on record STATINTL in the Flying Safety Office. The Flying Safety Officer had nother but good comments concerning the Q.D. He did say he would look into the matter STATINTL the next time he got together with [] was at Laughlin and [] was at Barksdale). Your attention is invited to Personal Equipment Report for February 1963, par 9a concerning LAC's comments concerning the Q.D.

c. Portable Blower and CMU-1/P Ventilating Garment: Three (3) tests were accomplished utilizing a 28Volt blower motor and a CMU-1/P Ventilating garment to determine feasibility of providing air circulation for pilots during transfer of pilot to aircraft and for time while in aircraft up until closing of canopy. The tests went as follows:

First Test: With CMU-1/P Ventilating garment and portable walk around bottles only. The garment provided sufficient circulation around the torso area when the regulator setting was on "emergency". Oxygen consumption was extremely high, however, and the bottles had to be recharged about ever 2 - 3 minutes. This is considered not practical for field use due to the limited supply of available oxygen.

Second Test: This test was made with the aforementioned ventilating garment, a small 28 V ambient air circulating blower, and the P.E. truck as a power source. The blower worked satisfactorily but a shielded wire was being used and it overheated and the test had to be terminated.

Third Test: This test was the same as number two (2) except a new wire was used. And it was used on the pilot after he landed. The test was satisfactory. We are currently looking for utilization of the blower with an electrical source direct from the aircraft. This is being considered due to the different adapters required for utilization with the starting pod, the jeep started, and the MA-2 Start Cart. [] proposed using an electrical Q.D. that fits the aircraft fan receptacle. A Q.D. is in the process of being obtained and this method will be checked out as soon as possible.

8. Personnel: The unit is going to be definitely short of technically qualified Personnel in the foreseeable future. [] will be leaving for discharge [] will be due for release from the project in May 64, and [] just four (4) months thereafter. The minimum manning for support of a dual staging concept is going to be affected starting the month of August, and in the event of sickness on the part of one of the remaining technicians, definitely

impaired. Trainings: The current job profile for the 922 (Personal

Equipment) career field with a suffix "B" indicates the individual must be school trained in the use and maintenance of the full pressure suit before the "B" can be awarded. Neither of the P.E. technicians in this section have been thus trained and should be ASAP in order that the technicians might become current in their specialty.

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